

Results of Pediatric Blood Lead Levels

• Methods

- Analyzed % Elevated Blood Lead (EBL)
 - EBL = Blood lead Levels > 5 g/dL
- EBL analysis conducted based on scientific literature (most notably DC lead in water exposure)

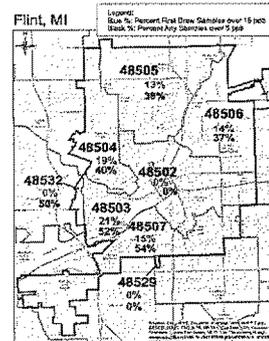
Blood Lead Level Analysis

- Large sample size
 - N= 1746 for Flint children (pre n=906, post n=840)
 - N= 1670 for non-Flint children (pre n=943, post n=727)

Flint results for children 5 years and under:

- PRE-SWITCH % EBL: 2.1% (consistent with MDHHS data 2.2)
- POST-SWITCH % EBL: 4.0%
- p < 0.05; STATISTICALLY SIGNIFICANT CHANGE

Zip Codes With High Water Lead



- Focus on zip codes (48503 and 48504) with high water lead levels
- Total n=742, pre n=394, post n=348

Results:

- PRE-SWITCH % EBL: 2.5%
- POST-SWITCH % EBL: 6.3%
- p < 0.05; STATISTICALLY SIGNIFICANT CHANGE

hand they test only 7
two dated test
p = 0.0107

What was rest of county doing?

- Analysis of same time periods for Genesee County children who live outside of City of Flint zip codes (non 48501-48507)
 - N=1670 for non-Flint children (pre n=943, post n=727)

Non-Flint results for children 5 years and under:

- PRE-SWITCH % EBL: 0.6%
- POST-SWITCH % EBL: 1.0%
- p = 0.637; NO STATISTICAL CHANGE

Blood Lead Level Analysis

- % EBL all children less than 5 years of age

	ALL FLINT (n=1746)	HIGH-water lead FLINT (n=742)	REST OF FLINT (n=1004)	NON-FLINT (n=1670)
PRE-SWITCH	2.1%	2.5%	1.8%	0.6%
POST-SWITCH	4.0%	6.3%	2.4%	1.0%

Blood Lead Level Analysis – 15 month

- % EBL children 15 months or less
 - Total Flint n=619, pre n=295, post n=324 (smaller sample size)
 - Total Non-Flint n=816, pre n=443, post n=376

	ALL FLINT (n=619)	HIGH-water lead FLINT (n=269)	REST OF FLINT (n=350)	NON-FLINT (n=816)
PRE-SWITCH	1.0%	1.5%	0.6%	0.5%
POST-SWITCH	2.5%	4.4%	1.1%	0.5%